

WEST

Help

Logout

Interrupt

Main Menu

Search Form

Posting Counts

Show S Numbers

Edit S Numbers

Preferences

Search Results -

Terms	Documents
111 and @pd<19980911	29

Database:

US Patents Full-Text Database
 US Pre-Grant Publication Full-Text Database
 JPO Abstracts Database
 EPO Abstracts Database
 Derwent World Patents Index
 IBM Technical Disclosure Bulletins

Refine Search:

111 and @pd<19980911

Clear

Search History

Today's Date: 7/23/2001

<u>DB Name</u>	<u>Query</u>	<u>Hit Count</u>	<u>Set Name</u>
USPT,PGPB	111 and @pd<19980911	29	<u>L12</u>
USPT,PGPB	non reducing and 110	59	<u>L11</u>
USPT,PGPB	19 and arthrobacter\$	241	<u>L10</u>
USPT,PGPB	(saccharide\$ or trehalose\$) and enzyme\$1	6938	<u>L9</u>
USPT,PGPB	(saccharide\$ or trahalose\$) and enzyme\$1	5606	<u>L8</u>
USPT,PGPB	16 or 15 or 14 or 13 or 12 or 11	11043	<u>L7</u>
USPT,PGPB	((536/23.2)!.CCLS.))	2966	<u>L6</u>
USPT,PGPB	((530/350)!.CCLS.))	5528	<u>L5</u>
USPT,PGPB	((435/252.1)!.CCLS.))	1222	<u>L4</u>
USPT,PGPB	((435/243)!.CCLS.))	831	<u>L3</u>
USPT,PGPB	((435/193)!.CCLS.))	736	<u>L2</u>
USPT,PGPB	((435/183)!.CCLS.)	1003	<u>L1</u>

WEST[Generate Collection](#)**Search Results - Record(s) 11 through 29 of 29 returned.**☐ 11. Document ID: US 5610047 A

L12: Entry 11 of 29

File: USPT

Mar 11, 1997

US-PAT-NO: 5610047

DOCUMENT-IDENTIFIER: US 5610047 A

TITLE: Non-reducing saccharide-forming enzyme, its preparation and uses

DATE-ISSUED: March 11, 1997

INVENTOR-INFORMATION:

NAME	CITY	STATE	ZIP CODE	COUNTRY
Maruta; Kazuhiko	Okayama	N/A	N/A	JPX
Kubota; Michio	Osaka	N/A	N/A	JPX
Sugimoto; Toshiyuki	Okayama	N/A	N/A	JPX
Miyake; Toshio	Okayama	N/A	N/A	JPX

US-CL-CURRENT: [435/201](#); [435/200](#), [435/95](#), [435/96](#), [435/97](#), [435/99](#)[Full](#) | [Title](#) | [Citation](#) | [Front](#) | [Review](#) | [Classification](#) | [Date](#) | [Reference](#)[KWC](#) | [Draw Desc](#) | [Image](#)☐ 12. Document ID: US 5591612 A

L12: Entry 12 of 29

File: USPT

Jan 7, 1997

US-PAT-NO: 5591612

DOCUMENT-IDENTIFIER: US 5591612 A

TITLE: Trehalose-releasing enzyme, and its preparation and uses

DATE-ISSUED: January 7, 1997

INVENTOR-INFORMATION:

NAME	CITY	STATE	ZIP CODE	COUNTRY
Maruta; Kazuhiko	Okayama	N/A	N/A	JPX
Kubota; Michio	Osaka	N/A	N/A	JPX
Sugimoto; Toshiyuki	Okayama	N/A	N/A	JPX
Miyake; Toshio	Okayama	N/A	N/A	JPX

US-CL-CURRENT: [435/100](#); [435/193](#), [435/195](#), [435/200](#), [435/201](#), [435/72](#), [536/123.13](#)[Full](#) | [Title](#) | [Citation](#) | [Front](#) | [Review](#) | [Classification](#) | [Date](#) | [Reference](#)[KWC](#) | [Draw Desc](#) | [Image](#)

☐ 13. Document ID: US 5591611 A

L12: Entry 13 of 29

File: USPT

Jan 7, 1997

US-PAT-NO: 5591611

DOCUMENT-IDENTIFIER: US 5591611 A

TITLE: Trehalose-releasing enzyme, and its preparation and uses

DATE-ISSUED: January 7, 1997

INVENTOR-INFORMATION:

NAME	CITY	STATE	ZIP CODE	COUNTRY
Maruta; Kazuhiko	Okayama	N/A	N/A	JPX
Kubota; Michio	Osaka	N/A	N/A	JPX
Sugimoto; Toshiyuki	Okayama	N/A	N/A	JPX
Miyake; Toshio	Okayama	N/A	N/A	JPX

US-CL-CURRENT: 435/100; 435/72, 514/777, 514/778, 536/123.13

Full	Title	Citation	Front	Review	Classification	Date	Reference
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KWIC	Draw Desc	Image
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☐ 14. Document ID: US 5576303 A

L12: Entry 14 of 29

File: USPT

Nov 19, 1996

US-PAT-NO: 5576303

DOCUMENT-IDENTIFIER: US 5576303 A

TITLE: Energy-supplementing saccharide source and its uses

DATE-ISSUED: November 19, 1996

INVENTOR-INFORMATION:

NAME	CITY	STATE	ZIP CODE	COUNTRY
Shibuya; Takashi	Okayama	N/A	N/A	JPX
Sugimoto; Toshiyuki	Okayama	N/A	N/A	JPX
Miyake; Toshio	Okayama	N/A	N/A	JPX

US-CL-CURRENT: 514/53; 426/658, 536/123.12

Full	Title	Citation	Front	Review	Classification	Date	Reference
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KWIC	Draw Desc	Image
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☐ 15. Document ID: US 5556781 A

L12: Entry 15 of 29

File: USPT

Sep 17, 1996

US-PAT-NO: 5556781
DOCUMENT-IDENTIFIER: US 5556781 A

TITLE: DNA encoding enzyme, recombinant DNA and enzyme, transformant, and their preparations and uses

DATE-ISSUED: September 17, 1996

INVENTOR-INFORMATION:

NAME	CITY	STATE	ZIP CODE	COUNTRY
Kubota; Michio	Osaka	N/A	N/A	JPX
Tsusaki; Keiji	Okayama	N/A	N/A	JPX
Hattori; Kazuko	Okayama	N/A	N/A	JPX
Sugimoto; Toshiyuki	Okayama	N/A	N/A	JPX

US-CL-CURRENT: 435/200; 435/252.3, 435/320.1, 536/23.2

Full	Title	Citation	Front	Review	Classification	Date	Reference
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KWIC	Draw Desc	Image
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☐ 16. Document ID: US 5500342 A

L12: Entry 16 of 29

File: USPT

Mar 19, 1996

US-PAT-NO: 5500342
DOCUMENT-IDENTIFIER: US 5500342 A

TITLE: Method for determining sugar chain structure

DATE-ISSUED: March 19, 1996

INVENTOR-INFORMATION:

NAME	CITY	STATE	ZIP CODE	COUNTRY
Miyamura; Tsuyoshi	Nishinomiya	N/A	N/A	JPX
Sano; Mutsumi	Otsu	N/A	N/A	JPX
Kondo; Akihiro	Akashi	N/A	N/A	JPX
Kato; Ikunoshin	Uji	N/A	N/A	JPX

US-CL-CURRENT: 435/4; 435/14, 435/18, 435/24, 435/7.91, 435/810, 536/18.5, 536/22.1, 536/25.4

Full	Title	Citation	Front	Review	Classification	Date	Reference
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KWIC	Draw Desc	Image
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☐ 17. Document ID: US 5472863 A

L12: Entry 17 of 29

File: USPT

Dec 5, 1995

US-PAT-NO: 5472863
DOCUMENT-IDENTIFIER: US 5472863 A

TITLE: Trehalose-releasing enzyme

DATE-ISSUED: December 5, 1995

INVENTOR-INFORMATION:

NAME	CITY	STATE	ZIP CODE	COUNTRY
Maruta; Kazuhiko	Okayama	N/A	N/A	JPX
Kubota; Michio	Osaka	N/A	N/A	JPX
Sugimoto; Toshiyuki	Okayama	N/A	N/A	JPX
Miyake; Toshio	Okayama	N/A	N/A	JPX

US-CL-CURRENT: 435/200; 435/100, 435/193, 435/195, 435/201, 536/123.13

Full	Title	Citation	Front	Review	Classification	Date	Reference
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KWIC	Draw Desc	Image
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☐ 18. Document ID: US 5463039 A

L12: Entry 18 of 29

File: USPT

Oct 31, 1995

US-PAT-NO: 5463039
DOCUMENT-IDENTIFIER: US 5463039 A

TITLE: Method of preparing hetero-branched cyclodextrins

DATE-ISSUED: October 31, 1995

INVENTOR-INFORMATION:

NAME	CITY	STATE	ZIP CODE	COUNTRY
Hara; Koji	Yokohama	N/A	N/A	JPX
Fujita; Koki	Yokohama	N/A	N/A	JPX
Kuwahara; Nobuhiro	Yokohama	N/A	N/A	JPX
Kitahata; Sumio	Osaka	N/A	N/A	JPX
Koizumi; Kyoko	Osaka	N/A	N/A	JPX

US-CL-CURRENT: 536/124; 435/101, 435/103, 435/74, 435/97, 536/103

Full	Title	Citation	Front	Review	Classification	Date	Reference
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KWIC	Draw Desc	Image
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☐ 19. Document ID: US 5455168 A

L12: Entry 19 of 29

File: USPT

Oct 3, 1995

US-PAT-NO: 5455168

DOCUMENT-IDENTIFIER: US 5455168 A

TITLE: .alpha.-glycosyl trehalose-forming enzyme

DATE-ISSUED: October 3, 1995

INVENTOR-INFORMATION:

NAME	CITY	STATE	ZIP CODE	COUNTRY
Maruta; Kazuhiko	Okayama	N/A	N/A	JPX
Kubota; Michio	Osaka	N/A	N/A	JPX
Sugimoto; Toshiyuki	Okayama	N/A	N/A	JPX
Miyake; Toshio	Okayama	N/A	N/A	JPX

US-CL-CURRENT: 435/201; 435/200, 435/95, 435/96, 435/97, 435/99

Full	Title	Citation	Front	Review	Classification	Date	Reference
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KWIC	Draw Desc	Image
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☐ 20. Document ID: US 5356884 A

L12: Entry 20 of 29

File: USPT

Oct 18, 1994

US-PAT-NO: 5356884

DOCUMENT-IDENTIFIER: US 5356884 A

TITLE: Hetero-branched cyclodextrins

DATE-ISSUED: October 18, 1994

INVENTOR-INFORMATION:

NAME	CITY	STATE	ZIP CODE	COUNTRY
Hara; Koji	Yokohama	N/A	N/A	JPX
Fujita; Koki	Yokohama	N/A	N/A	JPX
Kuwahara; Nobuhiro	Yokohama	N/A	N/A	JPX
Kitahata; Sumio	Osaka	N/A	N/A	JPX
Koizumi; Kyoko	Fujiidera-shi, Osaka	N/A	N/A	JPX

US-CL-CURRENT: 514/58; 435/101, 536/103

Full	Title	Citation	Front	Review	Classification	Date	Reference
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KWIC	Draw Desc	Image
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☐ 21. Document ID: US 5004690 A

L12: Entry 21 of 29

File: USPT

Apr 2, 1991

US-PAT-NO: 5004690
DOCUMENT-IDENTIFIER: US 5004690 A

TITLE: Ascorbic acid intermediates and process enzymes

DATE-ISSUED: April 2, 1991

INVENTOR-INFORMATION:

NAME	CITY	STATE	ZIP CODE	COUNTRY
Light; David R.	San Francisco	CA	N/A	N/A
Rastetter; William H.	San Mateo	CA	N/A	N/A

US-CL-CURRENT: 435/138; 435/135, 435/137, 435/139, 435/143, 435/189, 435/190,
435/320.1

Full	Title	Citation	Front	Review	Classification	Date	Reference
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KWC	Draw Desc	Image
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☐ 22. Document ID: US 4962048 A

L12: Entry 22 of 29

File: USPT

Oct 9, 1990

US-PAT-NO: 4962048
DOCUMENT-IDENTIFIER: US 4962048 A

TITLE: Monoclonal antibodies to human pancreatic cancer

DATE-ISSUED: October 9, 1990

INVENTOR-INFORMATION:

NAME	CITY	STATE	ZIP CODE	COUNTRY
Kajiji; Shama	San Diego	CA	N/A	N/A
Quaranta; Vito	La Jolla	CA	N/A	N/A

US-CL-CURRENT: 530/388.85; 435/344.1, 436/548, 530/808, 530/809

Full	Title	Citation	Front	Review	Classification	Date	Reference
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KWC	Draw Desc	Image
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☐ 23. Document ID: US 4851517 A

L12: Entry 23 of 29

File: USPT

Jul 25, 1989

US-PAT-NO: 4851517
DOCUMENT-IDENTIFIER: US 4851517 A

TITLE: Tissue plasminogen activator oligosaccharide from normal human colon cells

DATE-ISSUED: July 25, 1989

INVENTOR-INFORMATION:

NAME	CITY	STATE	ZIP CODE	COUNTRY
Feder; Joseph	University City	MO	N/A	N/A
Tolbert; William R.	Manchester	MO	N/A	N/A
Rademacher; Thomas W.	Oxford	N/A	N/A	GBX
Parekh; Raj B.	Oxford	N/A	N/A	GBX
Dwek; Raymond A.	Oxford	N/A	N/A	GBX

US-CL-CURRENT: 536/53; 536/1.11, 536/123

Full	Title	Citation	Front	Review	Classification	Date	Reference
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KWC	Draw Desc	Image
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☐ 24. Document ID: US 4818817 A

L12: Entry 24 of 29

File: USPT

Apr 4, 1989

US-PAT-NO: 4818817
DOCUMENT-IDENTIFIER: US 4818817 A

TITLE: Enzymatic degradation of lipopolysaccharide bioemulsifiers

DATE-ISSUED: April 4, 1989

INVENTOR-INFORMATION:

NAME	CITY	STATE	ZIP CODE	COUNTRY
Shoham; Yuval	Kibbutz Einat	N/A	N/A	ILX
Rosenberg; Eugene	Raanana	N/A	N/A	ILX
Gutnick; David L.	Sharon Tichon	N/A	N/A	ILX

US-CL-CURRENT: 536/119; 435/101, 514/54, 536/1.11, 536/123, 536/127, 536/4.1, 536/53

Full	Title	Citation	Front	Review	Classification	Date	Reference
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KWC	Draw Desc	Image
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☐ 25. Document ID: US 4758514 A

L12: Entry 25 of 29

File: USPT

Jul 19, 1988

US-PAT-NO: 4758514

DOCUMENT-IDENTIFIER: US 4758514 A

TITLE: Ascorbic acid intermediates and process enzymes

DATE-ISSUED: July 19, 1988

INVENTOR-INFORMATION:

NAME	CITY	STATE	ZIP CODE	COUNTRY
Light; David R.	San Francisco	CA	N/A	N/A
Rastetter; William H.	San Mateo	CA	N/A	N/A

US-CL-CURRENT: 435/91.41; 435/143, 435/190, 435/252.3, 435/252.31, 435/252.33,
435/320.1, 536/23.2, 930/240

Full	Title	Citation	Front	Review	Classification	Date	Reference
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KWIC	Draw Desc	Image
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☐ 26. Document ID: US 4757012 A

L12: Entry 26 of 29

File: USPT

Jul 12, 1988

US-PAT-NO: 4757012

DOCUMENT-IDENTIFIER: US 4757012 A

TITLE: Ascorbic acid intermediates and process enzymes

DATE-ISSUED: July 12, 1988

INVENTOR-INFORMATION:

NAME	CITY	STATE	ZIP CODE	COUNTRY
Estell; David A.	Mountain View	CA	N/A	N/A
Lazarus; Robert A.	San Mateo	CA	N/A	N/A
Light; David R.	San Francisco	CA	N/A	N/A
Miller; Jeffrey V.	Belmont	CA	N/A	N/A
Rastetter; William H.	San Mateo	CA	N/A	N/A

US-CL-CURRENT: 435/479; 435/138, 435/190, 435/320.1, 536/23.2, 930/200, 930/240

Full	Title	Citation	Front	Review	Classification	Date	Reference
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KWIC	Draw Desc	Image
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☐ 27. Document ID: US 4704360 A

L12: Entry 27 of 29

File: USPT

Nov 3, 1987

US-PAT-NO: 4704360
DOCUMENT-IDENTIFIER: US 4704360 A

TITLE: Enzymatic degradation of lipopolysaccharide bioemulsifiers

DATE-ISSUED: November 3, 1987

INVENTOR-INFORMATION:

NAME	CITY	STATE	ZIP CODE	COUNTRY
Shoham; Yuval	Kibbutz Einat	N/A	N/A	ILX
Rosenberg; Eugene	Raanana	N/A	N/A	ILX
Gutnick; David L.	Sharon Tichon	N/A	N/A	ILX

US-CL-CURRENT: 435/99; 435/101, 435/200, 435/252.5, 435/832, 435/835

Full	Title	Citation	Front	Review	Classification	Date	Reference
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KMC	Draw Desc	Image
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☐ 28. Document ID: US 4102743 A

L12: Entry 28 of 29

File: USPT

Jul 25, 1978

US-PAT-NO: 4102743
DOCUMENT-IDENTIFIER: US 4102743 A

TITLE: Process for the removal of sucrose from a sugar mixture

DATE-ISSUED: July 25, 1978

INVENTOR-INFORMATION:

NAME	CITY	STATE	ZIP CODE	COUNTRY
Yokobayashi; Koji	Okayama	N/A	N/A	JP
Ikeda; Tadashi	Tokyo	N/A	N/A	JP
Misaki; Akira	Nishinomiya	N/A	N/A	JP

US-CL-CURRENT: 435/276; 435/101, 435/178, 435/885

Full	Title	Citation	Front	Review	Classification	Date	Reference
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KMC	Draw Desc	Image
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☐ 29. Document ID: US 4072567 A

L12: Entry 29 of 29

File: USPT

Feb 7, 1978

US-PAT-NO: 4072567

DOCUMENT-IDENTIFIER: US 4072567 A

TITLE: Compound water-insoluble glucan and process for the production thereof

DATE-ISSUED: February 7, 1978

INVENTOR-INFORMATION:

NAME	CITY	STATE	ZIP CODE	COUNTRY
Yokobayashi; Koji	Okayama	N/A	N/A	JA
Ikeda; Tadashi	Tokyo	N/A	N/A	JA
Misaki; Akira	Hyoogo	N/A	N/A	JA

US-CL-CURRENT: 435/72; 435/885, 536/123.12

Full	Title	Citation	Front	Review	Classification	Date	Reference
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KWC	Draw Desc	Image
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Generate Collection

Terms	Documents
111 and @pd<19980911	29

Display

29

Documents, starting with Document:

29

Display Format:

TI

Change Format

WEST

Generate Collection

L12: Entry 6 of 29

File: USPT

Feb 10, 1998

US-PAT-NO: 5716838

DOCUMENT-IDENTIFIER: US 5716838 A

TITLE: Non-reducing saccharide-forming enzyme, its preparation and uses

DATE-ISSUED: February 10, 1998

INVENTOR-INFORMATION:

NAME	CITY	STATE	ZIP CODE	COUNTRY
Maruta; Kazuhiko	Okayama	N/A	N/A	JPX
Kubota; Michio	Osaka	N/A	N/A	JPX
Sugimoto; Toshiyuki	Okayama	N/A	N/A	JPX
Miyake; Toshio	Okayama	N/A	N/A	JPX

US-CL-CURRENT: 435/252.2; 435/100, 435/101, 435/252.1, 536/123.1, 536/123.13

CLAIMS:

We claim:

1. A biologically pure culture of a microorganism which produces an enzyme which forms a non-reducing saccharide having a trehalose structure when allowed to act on a reducing partial starch hydrolysate, which is a microorganism selected from the group consisting of Rhizobium sp. M-11 (FERM BP-4130) and its mutants.

2. A biologically pure culture of a microorganism which produces an enzyme which forms a non-reducing saccharide having a trehalose structure when allowed to act on a reducing partial starch hydrolysate, which is a microorganism selected from the group consisting of Arthrobacter sp. Q36 (FERM BP-4316) and its mutants.

3. A method for decreasing the reducing power of a reducing partial starch hydrolysate comprising contacting a solution containing a reducing partial starch hydrolysate with an enzyme which forms a non-reducing saccharide having a trehalose structure when allowed to act on a reducing partial starch hydrolysate but not on trehalose.

4. The method of claim 3, wherein said reducing partial starch hydrolysate is one or more reducing partial starch hydrolysates having a degree of glucose polymerization of 3 or more.

5. A method according to claim 3 wherein the reducing partial starch hydrolysate is selected from the group consisting of maltotriose, maltotetraose, maltopentaose, maltohexaose, and maltoheptaose.

6. A process for producing trehalose which comprises:

(a) contacting a solution containing a reducing partial starch hydrolysate with an enzyme to form a non-reducing saccharide having a trehalose structure, said enzyme acting on said reducing partial starch hydrolysate but not on trehalose;

(b) contacting the product of step (a) with glucoamylase or .alpha.-glucosidase to form trehalose; and

(c) recovering the resultant trehalose.

7. The process of claim 6, wherein the step (b) further includes a step of crystallizing trehalose.

8. The process of claim 7, wherein said trehalose is hydrous- or

anhydrous-crystalline trehalose.

9. The process of claim 6, wherein the resultant mixture in the step (b) is further subjected to column chromatography using a strongly-acidic cation-exchange resin to increase the content of trehalose.

10. The process of claim 6, wherein the trehalose structure in said non-reducing saccharide is located in its end unit.

11. The process of claim 10, wherein said non-reducing saccharide is an .alpha.-glycosyl trehalose shown by the formula:

G.sub.n -T

wherein the symbol "G" means glucose residue;

the symbol "n" means one or more integers;

and the symbol "T" means .alpha., .alpha.-trehalose residue.

12. The process of claim 6, wherein said reducing partial starch hydrolysate is one or more reducing partial starch hydrolysates having a degree of glucose polymerization of 3 or more.

=> d his

(FILE 'HOME' ENTERED AT 15:32:16 ON 23 JUL 2001)

FILE 'REGISTRY' ENTERED AT 15:32:28 ON 23 JUL 2001

L1 1 S TREHALOSE/CN
L2 1 S STARCH/CN

FILE 'HCAPLUS' ENTERED AT 15:33:17 ON 23 JUL 2001

L3 23 S ANTHROBACTER OR AGROBACTERIUM PSEUDOTSUGAE
L4 160291 S SACCHARIDE# OR CARBOHYDRATE# OR ((MONO OR OLIGO OR POLY) (W)

FILE 'REGISTRY' ENTERED AT 15:35:25 ON 23 JUL 2001

SET SMARTSELECT ON
L5 SEL L1 1- CHEM : 14 TERMS
SET SMARTSELECT OFF

FILE 'HCAPLUS' ENTERED AT 15:35:26 ON 23 JUL 2001

L6 7460 S L5

FILE 'REGISTRY' ENTERED AT 15:35:39 ON 23 JUL 2001

SET SMARTSELECT ON
L7 SEL L2 1- CHEM : 219 TERMS
SET SMARTSELECT OFF

FILE 'HCAPLUS' ENTERED AT 15:35:41 ON 23 JUL 2001

L8 113540 S L7
L9 113540 S L7
L10 0 S L8 AND L9 AND L3 AND L4
L11 0 S L8 AND L3 AND L4
L12 7460 S L5
L13 0 S L12 AND L3 AND L4
L14 0 S L3 AND L4 AND L1
L15 0 S L3 AND L1
E ARTHROBACTER/CT
E E3+ALL
L16 1 S L3 AND L4

FILE 'CROPU, DGENE, DPCI, ENCOMPPAT, ENCOMPPAT2, EUROPATFULL, HCAOLD,
HCAPLUS, IFIPAT, INPADOC, JAPIO, PAPERCHEM2, PATDD, PATDPA, PATOSDE,
PATOSEP, PATOSWO, PCTFULL, PIRA, RAPRA, SYNTHLINE, TULSA, TULSA2,
USPATFULL, WPIDS' ENTERED AT 15:42:03 ON 23 JUL 2001

L17 74 S ANTHROBACTER OR AGROBACTERIUM PSEUDOTSUGAE
L18 318559 S SACCHARIDE# OR CARBOHYDRATE# OR ((MONO OR OLIGO OR POLY) (W)
E ENZYMES/CT
E E3+ALL
L19 2 S L17 AND L18 AND ENZYME#
L20 8 S L17 AND L18

L19 ANSWER 1 OF 2 USPATFULL

ACCESSION NUMBER: 86:3367 USPATFULL
TITLE: Flocculation of aqueous media with novel flocculating adjuvant
INVENTOR(S): Le Du, Yannick, Maisons Alfort, France
Meiller, Francois, Palaiseau, France
PATENT ASSIGNEE(S): Rhone-Poulenc Specialites Chimiques, Courbevoie, France
(non-U.S. corporation)

	NUMBER	KIND	DATE
PATENT INFORMATION:	US 4565635		19860121
APPLICATION INFO.:	US 1983-460770		19830125 (6)
RELATED APPLN. INFO.:	Continuation of Ser. No. US 1982-442002, filed on 16 Nov 1982, now abandoned		

	NUMBER	DATE
PRIORITY INFORMATION:	FR 1981-21360	19811116
DOCUMENT TYPE:	Utility	
FILE SEGMENT:	Granted	
PRIMARY EXAMINER:	Hruskoci, Peter	
LEGAL REPRESENTATIVE:	Burns, Doane, Swecker & Mathis	
NUMBER OF CLAIMS:	33	
EXEMPLARY CLAIM:	1	
LINE COUNT:	1458	

CAS INDEXING IS AVAILABLE FOR THIS PATENT.

AB Aqueous media, e.g., potable waters, are treated/purified by flocculation utilizing, as the flocculant therefor, that flocculating adjuvant adapted for ready dispersion/dissolution in such media comprising intimate admixture of a water soluble gum, polymer or biogum heteropolysaccharide, a dispersion/dissolution enhancing amount of a water donor material, and, advantageously, an anionic and/or nonionic surfactant.

L19 ANSWER 2 OF 2 USPATFULL

ACCESSION NUMBER: 80:33227 USPATFULL
TITLE: Method for producing D-.alpha.-amino acid
INVENTOR(S): Nakamori, Shigeru, Yokohama, Japan
Yokozeki, Kenzo, Kawasaki, Japan
Mitsugi, Koji, Yokohama, Japan
Eguchi, Chikahiko, Kawasaki, Japan
Iwagami, Hisao, Kawasaki, Japan
PATENT ASSIGNEE(S): Ajinomoto Company, Incorporated, Tokyo, Japan (non-U.S. corporation)

	NUMBER	KIND	DATE
PATENT INFORMATION:	US 4211840		19800708
APPLICATION INFO.:	US 1978-897003		19780417 (5)

	NUMBER	DATE
PRIORITY INFORMATION:	JP 1977-67411	19770608
	JP 1977-118928	19771003
	JP 1977-157108	19771226
DOCUMENT TYPE:	Utility	
FILE SEGMENT:	Granted	
PRIMARY EXAMINER:	Warden, Robert J.	
LEGAL REPRESENTATIVE:	Oblon, Fisher, Spivak, McClelland & Maier	
NUMBER OF CLAIMS:	13	
EXEMPLARY CLAIM:	1	
LINE COUNT:	1524	

CAS INDEXING IS AVAILABLE FOR THIS PATENT.

AB D-.alpha.-amino acids are produced by contacting a 5-substituted hydantoin with an effective amount of an **enzyme** capable of converting the 5-substituted hydantoin to the D-.alpha.-amino acid produced by a microorganism in an aqueous medium at a pH in the range of 4 to 9, the microorganism being capable of utilizing the D-isomer of the 5-substituted hydantoin as the sole nitrogen source, but substantially incapable of utilizing the L-isomer of the 5-substituted hydantoin as the nitrogen source and the substituent of the 5-position being such that upon reaction with the **enzyme**, an optically active D-.alpha.-amino acid isomer is produced; and recovering the D-.alpha.-amino acid which accumulates in the aqueous medium.

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L20 ANSWER 1 OF 8 EUROPATFULL COPYRIGHT 2001 WILA

PATENT APPLICATION - PATENTANMELDUNG - DEMANDE DE BREVET

ACCESSION NUMBER: 608898 EUROPATFULL EW 199431 FS OS STA B
TITLE: Water dispersible thickeners comprising hydrophilic
polymers coated with particulate fatty acids or the
salts thereof.
Wasserdispergierbare Verdickungsmittel, welche
hydrophile Polymere, beschichtet mit teilchenfoermigen
Fettsauren oder deren Salzen, enthalten.
Epaississeurs dispersibles dans l'eau a base de
polymeres hydrophiles revetus d'acides gras ou leurs
sels sous forme de particules.
INVENTOR(S): Patel, Bharatkuma Balubhail, 5500 Woodland Road,
Bartlesville, OK 74006, US
PATENT ASSIGNEE(S): PHILLIPS PETROLEUM COMPANY, 5th and Keeler, Bartlesville
Oklahoma 74004, US
PATENT ASSIGNEE NO: 201539
AGENT: Dost, Wolfgang, Dr. rer.nat., Dipl.-Chem. et al, Patent-
und Rechtsanwaelte Bardehle, Pagenberg, Dost, Altenburg,
Frohwitter, Geissler & Partner, Postfach 86 06 20,
D-81633 Muenchen, DE
AGENT NUMBER: 3041
OTHER SOURCE: ESP1994054 EP 0608898 A1 940803
SOURCE: Wila-EPZ-1994-H31-T1a
DOCUMENT TYPE: Patent
LANGUAGE: Anmeldung in Englisch; Veroeffentlichung in Englisch
DESIGNATED STATES: R DE; R DK; R FR; R GB; R IT; R NL; R SE
PATENT INFO.PUB.TYPE: EPA1 EUROPAEISCHE PATENTANMELDUNG
PATENT INFORMATION:

	PATENT NO	KIND DATE
	EP 608898	A1 19940803
'OFFENLEGUNGS' DATE:		19940803
APPLICATION INFO.:	EP 1994-101291	19940128
PRIORITY APPLN. INFO.:	US 1993-11053	19930129

GRANTED PATENT - ERTEILTES PATENT - BREVET DELIVRE

ACCESSION NUMBER: 608898 EUROPATFULL EW 199813 FS PS
TITLE: Water dispersible thickeners comprising hydrophilic
polymers coated with particulate fatty acids or the
salts thereof.
Wasserdispergierbare Verdickungsmittel welche hydrophile
Polymere beschichtet mit teilchenfoermigen Fettsauren
oder deren Salzen enthalten.
Epaississeurs dispersibles dans l'eau a base de
polymeres hydrophiles revetus d'acides gras ou leurs
sels sous forme de particules.
INVENTOR(S): Patel, Bharatkuma Balubhail, 5500 Woodland Road,
Bartlesville, OK 74006, US
PATENT ASSIGNEE(S): PHILLIPS PETROLEUM COMPANY, 5th and Keeler, Bartlesville
Oklahoma 74004, US
PATENT ASSIGNEE NO: 201539
AGENT: Dost, Wolfgang, Dr.rer.nat., Dipl.-Chem. et al, Patent-
und Rechtsanwaelte Bardehle . Pagenberg . Dost .
Altenburg . Frohwitter . Geissler & Partner Postfach 86
06 20, 81633 Muenchen, DE
AGENT NUMBER: 3042
OTHER SOURCE: EPB1998016 EP 0608898 B1 980325
SOURCE: Wila-EPS-1998-H13-T1

DOCUMENT TYPE: Patent
LANGUAGE: Anmeldung in Englisch; Veroeffentlichung in Englisch
DESIGNATED STATES: R DE; R DK; R FR; R GB; R IT; R NL; R SE
PATENT INFO.PUB.TYPE: EPB1 EUROPAEISCHE PATENTSCHRIFT
PATENT INFORMATION:

	PATENT NO	KIND	DATE
	EP 608898	B1	19980325
'OFFENLEGUNGS' DATE:			19940803
APPLICATION INFO.:	EP 1994-101291		19940128
PRIORITY APPLN. INFO.:	US 1993-11053		19930129
REFERENCE PAT. INFO.:	EP 187433 A	EP	374658 A
	EP 565354 A	US	4218262 A
	US 4525515 A	US	4720303 A
REF. NON-PATENT-LIT.:	DATABASE WPI Week 8201, Derwent Publications Ltd., London, GB; AN 00809E & JP-A-56155058 (DAICEL CHEM INDS LTD) 1 December 1981		
ABEN	The present invention provides a water dispersible particulate polymer composition having improved water dispersibility comprising a water soluble particulate polymer which has been contacted with a finely divided particulate dispersant comprised of at least one insoluble or sparingly soluble fatty acid or salt thereof so that the particles of the water soluble particulate polymer have dispersed thereon said finely divided particulate dispersant, a method for making said water soluble particulate polymer composition, and the use thereof in viscosifying water-based fluids.		

L20 ANSWER 2 OF 8 HCAPLUS COPYRIGHT 2001 ACS

ACCESSION NUMBER: 1981:126768 HCAPLUS
DOCUMENT NUMBER: 94:126768
TITLE: Biodegradation of thiocyanate by microorganisms isolated from gas liquor
AUTHOR(S): Fleeker, James R.
CORPORATE SOURCE: North Dakota Water Resour. Res. Inst., Fargo, ND, USA
SOURCE: Report (1978), W80-04605, OWRT-A-054-NDAK(1); Order No. PB80-175029, 29 pp. Avail.: NTIS
From: Gov. Rep. Announce. Index (U. S.) 1980, 80(16), 3073

DOCUMENT TYPE: Report
LANGUAGE: English

AB Enrichment culture techniques were used to isolate an **Arthrobacter** species capable of using SCN- as a N source. SCN-, a pollution indicator, is found in wastewaters from coal gasification and coke prodn. Two enrichment media were used, a carboxylic acid-mineral medium (CM) and a glucose-mineral medium (GM); both were successful in producing isolates. The colony studied was isolated from a soil sample taken adjacent to a railroad bank and was isolated with the GM enrichment medium. The Arthrobacter isolated is gram-pos., heterotrophic, polymorphic, and grows in salmon-colored, opaque colonies. It is able to grow on alcs., amines, **carbohydrates**, and acids. The Arthrobacter can degrade SCN- even in the presence of NH3 or NO3-. It tolerates SCN- in concns. .ltoreq.0.1M. Anal. methods used include spectrophotometry, paper chromatog., guanine-cytosine content anal., and radioisotopic anal. Radioactive SCN- and the release of radioactive CO2 were used to monitor decompn. rates. Results show that SCN- degrdn. falls to low levels as growth approaches the stationary phase. Unsuccessful attempts were made to produce a cell-free ext. of the Arthrobacter that could chem. change SCN-.

L20 ANSWER 3 OF 8 IFIPAT COPYRIGHT 2001 IFI

AN 1648064 IFIPAT;IFIUDB;IFICDB
TITLE: FLOCCULATION OF AQUEOUS MEDIA WITH NOVEL FLOCCULATING ADJUVANT; GUM, POLYMER, OR BIOGUM MATERIAL AND WATER

INVENTOR(S): DONOR MATERIAL MIXTURE
 Le Du, Yannick, Maisons Alfort, FR
 Meiller, Francois, Palaiseau, FR
 PATENT ASSIGNEE(S): Rhone-Poulenc Specialites Chimiques, Courbevoie, FR
 PRIMARY EXAMINER: Hruskoci, Peter
 AGENT: Burns, Doane, Swecker & Mathis

	NUMBER	DATE
PATENT INFORMATION:	US 4565635	19860121
	(CITED IN 011 LATER PATENTS)	
APPLICATION INFORMATION:	US 1983-460770	19830125
EXPIRATION DATE:	21 Jan 2003	

	APPLN. NUMBER	DATE	GRANTED PATENT NO. OR STATUS
CONTINUATION OF:	US 1982-442002	19821116	ABANDONED

	NUMBER	DATE
PRIORITY APPLN. INFO.:	FR 1981-21360	19811116
FAMILY INFORMATION:	US 4565635	19860121
DOCUMENT TYPE:	UTILITY; EXPIRED	
FILE SEGMENT:	CHEMICAL	
MICROFILM REEL NO:	004088	FRAME NO: 0029
NUMBER OF CLAIMS:	33	

AB Aqueous media, e.g., potable waters, are treated/purified by flocculation utilizing, as the flocculant therefor, that flocculating adjuvant adapted for ready dispersion/dissolution in such media comprising intimate admixture of a water soluble gum, polymer or biogum heteropolysaccharide, a dispersion/dissolution enhancing amount of a water donor material, and, advantageously, an anionic and/or nonionic surfactant.

L20 ANSWER 4 OF 8 USPATFULL

ACCESSION NUMBER: 86:3367 USPATFULL
 TITLE: Flocculation of aqueous media with novel flocculating adjuvant
 INVENTOR(S): Le Du, Yannick, Maisons Alfort, France
 Meiller, Francois, Palaiseau, France
 PATENT ASSIGNEE(S): Rhone-Poulenc Specialites Chimiques, Courbevoie, France
 (non-U.S. corporation)

	NUMBER	KIND	DATE
PATENT INFORMATION:	US 4565635		19860121
APPLICATION INFO.:	US 1983-460770		19830125 (6)
RELATED APPLN. INFO.:	Continuation of Ser. No. US 1982-442002, filed on 16 Nov 1982, now abandoned		

	NUMBER	DATE
PRIORITY INFORMATION:	FR 1981-21360	19811116
DOCUMENT TYPE:	Utility	
FILE SEGMENT:	Granted	
PRIMARY EXAMINER:	Hruskoci, Peter	
LEGAL REPRESENTATIVE:	Burns, Doane, Swecker & Mathis	
NUMBER OF CLAIMS:	33	
EXEMPLARY CLAIM:	1	
LINE COUNT:	1458	

CAS INDEXING IS AVAILABLE FOR THIS PATENT.

AB Aqueous media, e.g., potable waters, are treated/purified by flocculation utilizing, as the flocculant therefor, that flocculating adjuvant adapted for ready dispersion/dissolution in such media

comprising intimate admixture of a water soluble gum, polymer or biogum heteropolysaccharide, a dispersion/dissolution enhancing amount of a water donor material, and, advantageously, an anionic and/or nonionic surfactant.

L20 ANSWER 5 OF 8 USPATFULL

ACCESSION NUMBER: 80:57920 USPATFULL
TITLE: Production of .alpha.-emulsans
INVENTOR(S): Gutnick, David L., Ramat Aviv, Israel
Rosenberg, Eugene, Raanana, Israel
Shabtai, Yossef, Ramat Hasharon, Israel
PATENT ASSIGNEE(S): Biotechnologie Aktiengesellschaft fur Emulsan, Basel,
Switzerland (non-U.S. corporation)

	NUMBER	KIND	DATE
PATENT INFORMATION:	US 4234689		19801118
APPLICATION INFO.:	US 1979-12972		19790222 (6)
DOCUMENT TYPE:	Utility		
FILE SEGMENT:	Granted		
PRIMARY EXAMINER:	Castel, Benoit		
LEGAL REPRESENTATIVE:	Pennie & Edmonds		
NUMBER OF CLAIMS:	21		
EXEMPLARY CLAIM:	1		
NUMBER OF DRAWINGS:	18 Drawing Figure(s); 18 Drawing Page(s)		
LINE COUNT:	2811		

CAS INDEXING IS AVAILABLE FOR THIS PATENT.

AB Growth of Arthrobacter Sp. ATCC 31012 on ethanol has been used to produce a new class of extracellular microbial protein-associated lipopolysaccharides (the ".alpha.-emulsans") which, on a weight-for-weight basis, are probably the most efficient emulsifiers discovered and which possess certain characteristics that permit these unique extracellular microbial lipopolysaccharides to be widely used in cleaning oil-contaminated vessels, oil spill management, and enhanced oil recovery by chemical flooding. Deproteinization of .alpha.-emulsans by hot phenol extraction produces the lipopolysaccharide components (the "apo-.alpha.-emulsans") of such .alpha.-emulsans, which components have been shown to be completely N-acylated and partially O-acylated heteropolysaccharides made up of major amounts of D-galactosamine and an aminouronic acid, the O-lipoacyl portions of such apo-.alpha.-emulsans containing at least 5 percent by weight of fatty acid esters in which the fatty acids contain from about 10 to about 18 carbon atoms. .alpha.-Emulsans and apo-.alpha.-emulsans, both of which biopolymers are strongly anionic, exhibit a high degree of specificity in the emulsification of hydrocarbon substrates which contain both aliphatic and cyclic components. In addition, these extracellular microbial polysaccharides as well as their O-deacylated and N-deacylated derivatives are adsorbed on and capable of flocculating aluminosilicate ion-exchangers, such as kaolin and bentonite.

L20 ANSWER 6 OF 8 USPATFULL

ACCESSION NUMBER: 80:33227 USPATFULL
TITLE: Method for producing D-.alpha.-amino acid
INVENTOR(S): Nakamori, Shigeru, Yokohama, Japan
Yokozeki, Kenzo, Kawasaki, Japan
Mitsugi, Koji, Yokohama, Japan
Eguchi, Chikahiko, Kawasaki, Japan
Iwagami, Hisao, Kawasaki, Japan
PATENT ASSIGNEE(S): Ajinomoto Company, Incorporated, Tokyo, Japan (non-U.S. corporation)

	NUMBER	KIND	DATE
PATENT INFORMATION:	US 4211840		19800708

APPLICATION INFO.: US 1978-897003 19780417 (5)

	NUMBER	DATE
PRIORITY INFORMATION:	JP 1977-67411	19770608
	JP 1977-118928	19771003
	JP 1977-157108	19771226
DOCUMENT TYPE:	Utility	
FILE SEGMENT:	Granted	
PRIMARY EXAMINER:	Warden, Robert J.	
LEGAL REPRESENTATIVE:	Oblon, Fisher, Spivak, McClelland & Maier	
NUMBER OF CLAIMS:	13	
EXEMPLARY CLAIM:	1	
LINE COUNT:	1524	

CAS INDEXING IS AVAILABLE FOR THIS PATENT.

AB D-.alpha.-amino acids are produced by contacting a 5-substituted hydantoin with an effective amount of an enzyme capable of converting the 5-substituted hydantoin to the D-.alpha.-amino acid produced by a microorganism in an aqueous medium at a pH in the range of 4 to 9, the microorganism being capable of utilizing the D-isomer of the 5-substituted hydantoin as the sole nitrogen source, but substantially incapable of utilizing the L-isomer of the 5-substituted hydantoin as the nitrogen source and the substituent of the 5-position being such that upon reaction with the enzyme, an optically active D-.alpha.-amino acid isomer is produced; and recovering the D-.alpha.-amino acid which accumulates in the aqueous medium.

L20 ANSWER 7 OF 8 WPIDS COPYRIGHT 2001 DERWENT INFORMATION LTD
ACCESSION NUMBER: 1980-72145C [41] WPIDS
TITLE: Aq., fermented machining fluid contg. hydroxy acid antirust agent - prepd. in a culture medium contg. a **saccharide**, a nitrogen source and an inorganic salt.
DERWENT CLASS: D16 H08 M11 M14
PATENT ASSIGNEE(S): (INOZ) INOUE JAPAX RES INC
COUNTRY COUNT: 1
PATENT INFORMATION:

PATENT NO	KIND	DATE	WEEK	LA	PG
GB 1576548	A	19801008	(198041)*		

PRIORITY APPLN. INFO: GB 1977-30156 19770719

AB GB 1576548 A UPAB: 19930902
A machining fluid comprises water or an aq. soln., and, as an anti-rusting component (I), a $\geq 10\text{C}$ aliphatic acid contg. 3 CO₂H gps. and 1 OH gp., or a lactone thereof. (I) is prepd. by cultivating a microorganism (II) in a culture medium contg. a **saccharide** (III), a N source (IV) and an inorganic salt (V), followed by sepn. and recovery of (I). (II) is pref. a fungus comprising bacteria of the **Anthrobacter** genus, *Penicillium spiculisporum*, *Aspergillus spiculisporum* or a yeast of the *Candida* genus. (I) is e.g. *Spiculisporic* acid or lactone, and O₂ is pref. replenished to the culture medium during fermentation.
The fluid is esp. useful for electrochemical machining (I) inhibits corrosion without being expensive, hazardous or reducing machining efficiency. Low cost, cast iron machines can be used.

L20 ANSWER 8 OF 8 WPIDS COPYRIGHT 2001 DERWENT INFORMATION LTD
ACCESSION NUMBER: 1966-29042F [00] WPIDS
TITLE: Production of coenzyme a.
DERWENT CLASS: B04 D16
PATENT ASSIGNEE(S): (TAKE) TAKEDA CHEM IND LTD

COUNTRY COUNT: 7
PATENT INFORMATION:

PATENT NO	KIND	DATE	WEEK	LA	PG
NL 6705295	A		(196800) *		
FR 1522627	A		(196801)		
JP 43024459	B		(196801)		
GB 1183873	A		(197010)		
FR 6877	M		(197044)		
CH 502339	A		(197118)		
US 3669836	A		(197226)		
DE 1642750	A	19710519	(198503)		

PRIORITY APPLN. INFO: JP 1966-24234 19660416

AB NL 6705295 A UPAB: 19930831

Method for the production of coenzyme A.

Coenzyme A has a vital physiological role in the utilisation of lipoids and **carbohydrates** and in the biosynthesis of steroids and carotenoids.

A hydrocarbon assimilating micro-organism from the genus *Corynebacterium*, *Brevibacterium*, *Pseudomonas*, or *Arthrobacter* is incubated with a hydrocarbon source, consisting of not less than 10% V/V normal alkanes with 9 to 23 carbon atoms. The culture medium is incubated until coenzyme A accumulates in the solution and it is then isolated. Examples of suitable micro-organisms are *Corynebacterium hydrocarboclastus*, *Corynebacterium fascians*, *Brevibacterium leucinophagum*, *Brevibacterium alkanophilum*, *Pseudomonas alkanolytica*, *Pseudomonas aeruginosa* and ***Anthrobacter simplex***.

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